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FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
08/24/2000	David G. Bermudes	8002-059-999	3240 .
590 11/19/2002			
PENNIE AND EDMONDS		EXAMINER	
OF THE AMERICAS NY 100362711		SHUKLA, RAM R	
		ART UNIT	PAPER NUMBER
	•	1632	17
		DATE MAILED: 11/19/2002	(/
	08/24/2000 690 11/19/2002 D EDMONDS OF THE AMERICAS NY 100362711	08/24/2000 David G. Bermudes 590 11/19/2002 DEDMONDS OF THE AMERICAS NY 100362711	08/24/2000 David G. Bermudes 8002-059-999 590 11/19/2002 D EDMONDS OF THE AMERICAS NY 100362711 ART UNIT 1632

Please find below and/or attached an Office communication concerning this application or proceeding.

•	Application No.	Applicant(s)		
	09/645,415	BERMUDES ET AL.		
Office Action Summary	Examiner	Art Unit		
	Ram R. Shukla	1632		
The MAILING DATE of this c mmunication app Period for Reply	pears on the cover sheet with the	c rrespondence address		
A SHORTENED STATUTORY PERIOD FOR REPL' THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1: after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be a within the statutory minimum of thirty (30) divil apply and will expire SIX (6) MONTHS fro a cause the application to become ABANDON	timely filed ays will be considered timely. m the mailing date of this communication. IED (35 U.S.C. § 133).		
Status		•		
1) Responsive to communication(s) filed on 28 A				
والنوا أأسأو المراوي المروسة والمراوية والمراوية المراوية	is action is non-final.	المناه والمناه والموالية والمناه والمناه		
3) Since this application is in condition for allows closed in accordance with the practice under Disposition of Claims				
4) Claim(s) 2-14,16,26-38,40,49-63,72,86,94 and	d 100-141 is/are pending in the	application.		
4a) Of the above claim(s) is/are withdraw	vn from consideration.			
5) Claim(s) is/are allowed.				
6) Claim(s) is/are rejected.				
7) Claim(s) is/are objected to.				
8) Claim(s) 2, 3-14, 16, 26-38, 40, 49-63, 72, 86,	94, 100-141 are subject to rest	riction and/or election requirement.		
Application Papers				
9) The specification is objected to by the Examine	f.			
10) The drawing(s) filed on is/are: a) accept	oted or b) objected to by the Ex	aminer.		
Applicant may not request that any objection to the	e drawing(s) be held in abeyance.	See 37 CFR 1.85(a).		
11)☐ The proposed drawing correction filed on	_is: a)☐ approved b)☐ disapp	roved by the Examiner.		
If approved, corrected drawings are required in rep	bly to this Office action.			
12)☐ The oath or declaration is objected to by the Ex	aminer.			
Priority under 35 U.S.C. §§ 119 and 120	•			
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).				
a) ☐ All b) ☐ Some * c) ☐ None of:				
1. Certified copies of the priority documents have been received.				
2. Certified copies of the priority documents have been received in Application No				
Copies of the certified copies of the prior application from the International But See the attached detailed Office action for a list	reau (PCT Rule 17.2(a)).	-		
14) Acknowledgment is made of a claim for domestic	•			
·				
 a) ☐ The translation of the foreign language pro 15) ☐ Acknowledgment is made of a claim for domesting 	• •			
Attachment(s)				
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informa	ry (PTO-413) Paper No(s) I Patent Application (PTO-152)		

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DETAILED ACTION

1. Response filed 8-22-02 has been received.

- 2. Amendment to claim 60 has been entered.
- 3. Claims 1, 15, 17-25, 39, 41-48, 62, 64-71, 85, 87-93 and 95-99 have been cancelled.
- 4. New claims 100-141 have been entered.
- 5. Claims 2, 3-14, 16, 26-38, 40, 49-63, 72, 86, 94, 100-141 are pending.
- 6. Applicant's election of the invention of group II (CLAIMS 2, 3-14, 16, 26-38, 40, 49-61, 63, 72-84, 86, and 94) in Paper No. 16 is acknowledged. Because applicant did not distinctly and specifically point out the supposed errors in the restriction requirement, the election has been treated as an election without traverse (MPEP § 818.03(a)). Applicants further elected TNF –alpha as the species in TNF family, endostatin in anti-angiogenic factor, methionase in tumor inhibitory enzymes, verotoxin in the cytotoxic peptide family, ColE3 in bacteriocin family, dsDNA in the antisense molecule, ricin as the anti-tumor protein, cytosine deaminase in the pro-drug convertin enzyme, CEA in the immunomodulating agents and BRP in the release factor.
- 7. It is noted that upon further consideration and examination, it was determined that in addition to the above restriction/election, a further restriction/election is required as follows:
- I. Claims 2, 3-14, 16, 26-38, 40, 49-61, 63 and 100-141, drawn to an attenuated tumor targeting bacteria, a pharmaceutical composition comprising the bacteria and a method of delivering an effector molecule to a tumor, classified in class 435, subclass 93.2.

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II. Claims 72-86 and 94, drawn to a method of treating a tumor using a combination of a chemotherapeutic composition and an attenuated tumor targeting bacteria, classified in class 435, subclass 93.2.

- 8. Inventions of the groups I and II are patentably distinct. In the instant case, it is noted that while the bacteria of group I is used in the methods of the groups I and II, the methods are patentably distinct because the method group I can be practiced without the chemotherapeutic agent used in group II.

 Additionally, the chemotherapeutic agent of group II can be used independently of the bacteria of group I or in combination of other therapeutic agent. Therefore, the inventions of the groups I and II are patentably distinct.
- 9. This application contains claims directed to the following patentably distinct species of the claimed invention:
 - Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, primary effector molecule is a genus that comprises the species of: TNF –alpha, antiangiogenic factor, tumor inhibitory enzymes, cytotoxic peptides, bacteriocin family, hemolysin, CNF-1, CNF-2, and PMT.
 - Regarding claim 12, applicants are required between- an animal, a plant, a bacterium and a virus.
 - Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, secondary effector molecule is a genus that comprises the species of: an antisense molecule, a ribozyme, an antigen, an anti-tumor proteins, pro-drug converting enzyme, immunomodulating agents, bacteriocin release factor, an inhibitor of nitric

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oxide synthase, an inhibitor of endothelial nitric oxide synthase and a release factor.

10. It is noted that while applicants have elected TNF –alpha as the species in TNF family, endostatin in anti-angiogenic factor, methionase in tumor inhibitory enzymes, verotoxin in the cytotoxic peptide family, ColE3 in bacteriocin family, dsDNA in the antisense molecule, ricin as the anti-tumor protein, cytosine deaminase in the pro-drug convertin enzyme, CEA in the immunomodulating agents and BRP in the release factor, they are advised to elect a species of the elected species, if the elected species of primary or secondary effector molecule is different from those already elected.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

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- 11. Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).
- 12. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a petition under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

When amending claims, applicants are advised to submit a clean version of each amended claim (without underlining and bracketing) according to § 1.121(c). For instructions, Applicants are referred to http://www.uspto.gov/web/offices/dcom/olia/aipa/index.htm.

Applicants are also requested to submit a copy of all the pending/under consideration claims.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ram R. Shukla whose telephone number is (703) 305-1677. The examiner can normally be reached on Monday through Friday from 7:30 am to 4:00 p.m. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Deborah Reynolds, can be reached on (703) 305-4051. The fax phone number for this Group is (703) 308-4242. Any inquiry of a general nature, formal matters or relating to the status of this application or proceeding should be directed to the Tiffiany N. Tabb whose telephone number is (703) 605-1238.

Ram R. Shukla, Ph.D.

PAM R. SHUKLA, PH.D.